



Installation and Operation Manual

Gas Target Top Range Electric Ovens

RN8110GE
RN8110GEC

RNL8110GE
RNL8110GEC



Date Purchased

Serial Number

Dealer

Service Provider

MANUFACTURED BY

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Waldorf Gas Target Top Range Electric Oven**RN(L)8110GE Gas Target Top Range Electric Static Oven.****RN(L)8110GEC Gas Target Top Range Electric Convection Oven.**

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Introduction

We are confident that you will be delighted with your WALDORF Gas Target Top Range Electric Ovens and it will become a most valued appliance in your commercial kitchen.

To ensure you receive the utmost benefit from your new Waldorf appliance, there are two important things you can do.

Firstly:

Please read the instruction book carefully and follow directions given. The time taken will be well spent.

Secondly:

If you are unsure of any aspect of the installation, instructions or performance of your appliance, contact your WALDORF dealer promptly. In many cases a phone call could answer your question.



Warning

IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS APPLIANCE.



Warning

INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE USER SMELLS GAS ARE TO BE POSTED IN A PROMINENT LOCATION. THIS INFORMATION SHALL BE OBTAINED BY CONSULTING THE LOCAL GAS SUPPLIER.



Warning

GREAT CARE MUST BE TAKEN BY THE OPERATOR TO USE THE EQUIPMENT SAFELY TO GUARD IT AGAINST RISK OF FIRE.

- THE APPLIANCE MUST **NOT** BE LEFT ON UNATTENDED.
- IT IS RECOMMENDED THAT A REGULAR INSPECTION IS MADE BY A COMPETENT SERVICE PERSON TO ENSURE CORRECT AND SAFE OPERATION OF YOUR APPLIANCE IS MAINTAINED.
- **DO NOT** STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPOURS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.
- **DO NOT** SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.



Caution

- This appliance is for professional use and is only to be used by qualified persons.
- Only authorised service persons are to carry out installation, servicing or gas conversion operations.
- Components having adjustments protected (e.g. paint sealed) by the manufacturer should not be adjusted by the user / operator.
- **DO NOT** operate the appliance without the legs supplied fitted.

Model Numbers Covered in this Specification

RN[1]8110GE	Gas Target Top Range Electric Static Oven - 900mm.
RN[1]8110GEC	Gas Target Top Range Electric Convection Oven - 900mm.

NOTE:

- [1]: - Back Options;
- Standard Models.
 - L - Low Back Models.

General

A commercial heavy duty, gas fired Target Top having a high output, two stage double-ring cast iron burner offering accurate temperature control and infinitely variable heat with heat radiating out from centre of Target Top. The Main Burner is located underneath removable cast target top plates.

With a heavy duty, high efficiency electric static or convection oven options, fitted with a 900mm, 6.5kW electric static oven and a 6.6kW Convection Oven created for compact modular kitchens. Both ovens are fitted with 4.5 kW bottom element and 2.0kW top element. The Convection oven is fitted with a 100W oven fan motor.

Gas Supply Requirements

	Natural Gas	LP Gas / Butane	Town Gas (**)
Input Rating (N.H.G.C.)	45 MJ/hr (42,650 BTU)	45 MJ/hr (42,650 BTU)	45 MJ/hr (42,650 BTU)
Supply Pressure	1.13 - 3.40 kPa (4.5" - 13.5" w.c.)	2.75 - 4.50 kPa (11" - 18" w.c.)	0.75 - 1.50 kPa (3" - 6" w.c.)
Operating Pressure	1.0 kPa (*) (4.0" w.c.)	2.6 kPa (*) (10.0" w.c.)	0.63 kPa (*) (2.5" w.c.)
Gas Connection	¾" BSP Male		

NOTE:

- (**) Measure burner operating pressure at target top hob manifold test point with target top burner (Inner and outer ring) operating at full setting.
- NAT, LPG & Butane Only - Operating pressure is ex-factory set and is not to be adjusted, apart from when converting between gasses, if required.
- TOWN GAS Only - Burner operating pressure is to be adjusted using adjustable gas regulator supplied. Town Gas Option is only available with specific ex-factory built Town Gas models, which can also be converted to any other gas. Standard models can only be converted between Nat. Gas, LP Gas and Butane, but not Town Gas.
- Refer to 'Gas Conversion and Specifications' section of this manual for further details.

Gas Connection

Gas supply connection point is located at rear of appliance, approximately 130mm from right hand side, 32mm from rear, 655mm from floor and is reached from beneath appliance. An optional underside connection is available. (Refer to 'Dimensions' section).

Connection is ¾" BSP male thread.

Specifications

Electrical Supply Requirements

MODEL	1-Phase Connection 1P+N+E, 230-240V	3-Phase Connection 3P+N+E, 400-415V
RN8110GE	6.5 kW, 26.6 Amps @ 235 V	6.5 kW L1 - 8.2 Amps L2 - 9.2 Amps L3 - 9.2 Amps
RN8110GEC	6.8 kW, 27.9 Amps @ 235 V	6.8 kW L1 - 9.5 Amps L2 - 9.2 Amps L3 - 9.2 Amps

Electrical Connection

Electrical supply connection point is located at rear of appliance, approximately 80mm from right hand side, 466mm from rear and 150mm from floor.



Warning

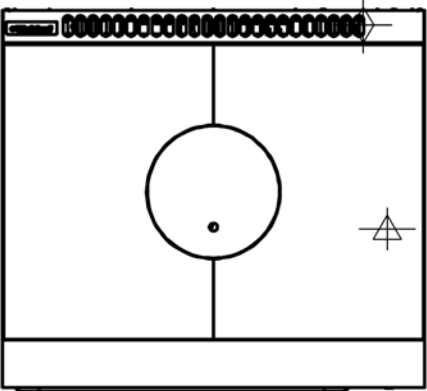
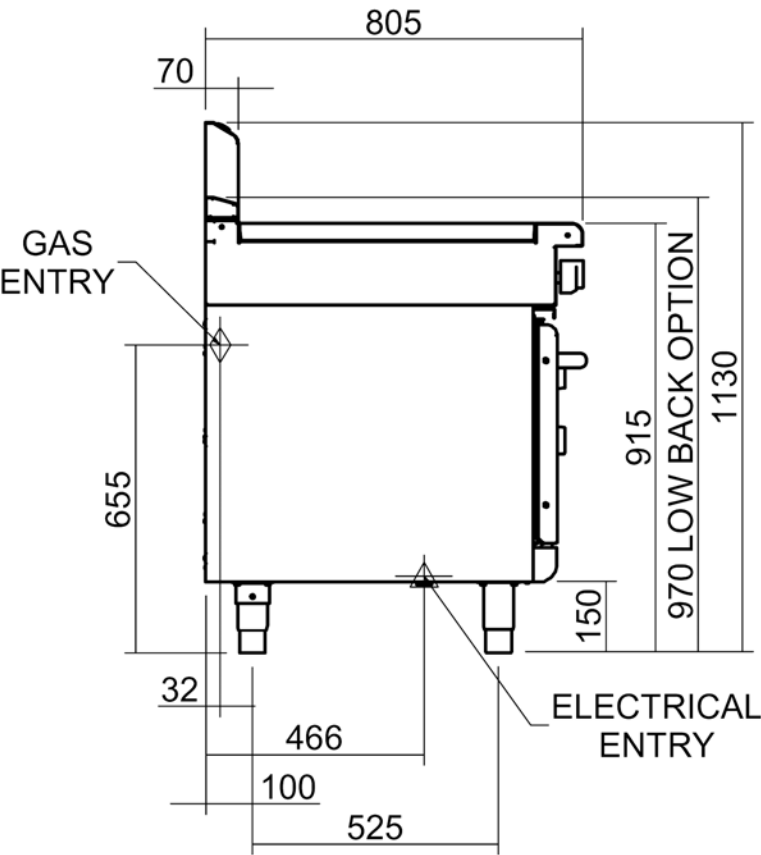
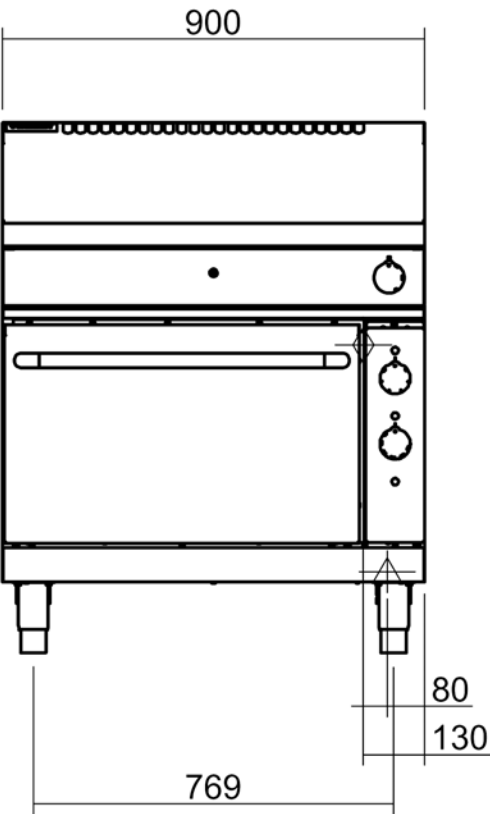
THIS APPLIANCE MUST BE EARTHED. IF SUPPLY CORD IS DAMAGED, IT MUST BE REPLACED BY A SUITABLY QUALIFIED PERSON IN ORDER TO AVOID A HAZARD.

When connecting a this electric appliance to mains supply, ensure that the following is carried out:-

- An isolating switch is fitted within 2m of the appliance, but not on the appliance and in such a position that the user does not have to reach across the cooking surface.
- Supply cord shall be oil-resistant, sheathed flexible cable and not lighter than ordinary polychloroprene or other equivalent synthetic elastomer sheathed cord (as per AS / NZS 3191 part 2.10.11. or IEC 60245-IEC-57) e.g. HO5 RN-F Type.
- The branch supply line shall be individually overload protected to the correct current rating and the supply chord shall be protected against any mechanical or thermal damage.
- A grommet is fitted around the wiring entry hole into the appliance.
- All wiring connections must be tight.

Refer to the appropriate wiring standards for the size of cable that is to be supplied to an appliance for the current drawn on that line.

Dimensions RN(L)8110GE / GEC



Installation

Installation Requirements

NOTE:

- It is most important that this appliance is installed correctly and that operation is correct before use. Installation shall comply with local gas, electrical and health and safety requirements.
- This appliance shall be installed with sufficient ventilation to prevent the occurrence of unacceptable concentrations of health harmful substances in the room, the appliance is installed in.

Waldorf Target Top Range Electric Ovens are designed to provide years of satisfactory service, and correct installation is essential to achieve the best performance, efficiency and trouble-free operation.

This appliance must be installed in accordance with National installation codes and in addition, in accordance with relevant National / Local codes covering gas, electrical and fire safety.

Australia:	- AS5601	- Gas Installations.
New Zealand:	- NZS5261	- Gas Installation.

Installations must be carried out by authorised persons only. Failure to install equipment to relevant codes and manufacturer's specifications shown in this section will void the warranty.

Components having adjustments protected (e.g. paint sealed) by the manufacturer are only to be adjusted by an authorised service agent. They are not to be adjusted by the installation person.

Unpacking

- Remove all packaging and transit protection from appliance including all protective plastic coating from exterior stainless steel panels.
- Check equipment and parts for damage. Report any damage immediately to carrier and distributor.
- Report any deficiencies to distributor who supplied appliance.
- Check available gas and electrical supply is correct to as shown on rating plate located on front right hand corner of bottom sill.

Location

1. Installation must allow for a sufficient flow of fresh air for combustion air supply.

Combustion Air Requirements:		
	RN8110GE	RN8110GEC
Natural Gas	12 m ³ /hr	12 m ³ /hr
LPG / Butane	12 m ³ /hr	12 m ³ /hr
Town Gas	12 m ³ /hr	12 m ³ /hr

2. Installation must include adequate ventilation means, to prevent dangerous build up of combustion products.
3. Never directly connect a ventilation system to appliance flue outlet.
4. Any gas burning appliance requires adequate clearance and ventilation for optimum and trouble-free operation. Minimum installation clearances shown overleaf are to be adhered to.
5. Position appliance in its approximate working position.
6. All air for burner combustion is supplied from beneath appliance. Legs must always be fitted and no obstructions placed on underside or around base of appliance, as obstructions will cause incorrect operation and / or failure of appliance.
7. Components having adjustments protected (e.g. paint sealed) by manufacturer are only to be adjusted by an authorised service agent. They are not to be adjusted by the installation person.

NOTE: Do not obstruct or block appliances flue. Never directly connect a ventilation system to appliance flue outlet.

Clearances

NOTE: Only non-combustible materials can be used in close proximity to this appliance.

	Combustible Surface	Non Combustible Surface
Left / Right hand side	50mm	0mm
Rear	50mm	0mm

* Side clearances can be 50mm when adjacent surface is at least 100mm below cooking surface.

Assembly

This model is delivered completely assembled. Ensure legs are securely attached.

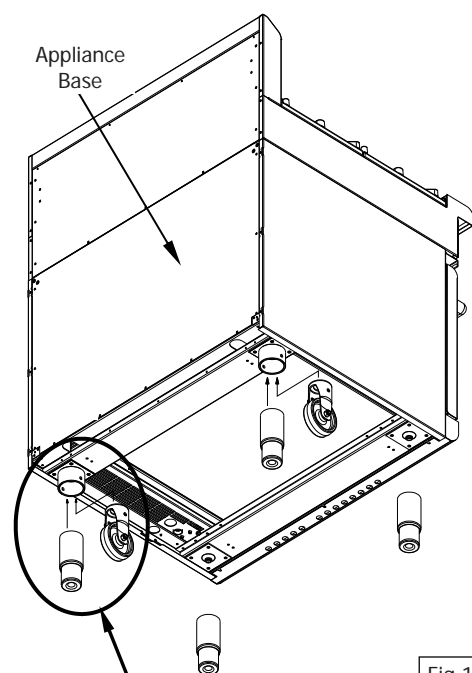
NOTE:

- This appliance is fitted with adjustable feet to enable it to be positioned securely and level on uneven floors. This should be carried out on completion of gas connection. Refer to 'Gas Connection Section'.
- This appliance can also be fitted with rear rollers to enable appliance to be easily moved for positioning and cleaning purposes. If desired, these rollers are supplied in the packaging, with the appliance. See below for fitting instructions.

Optional Accessories

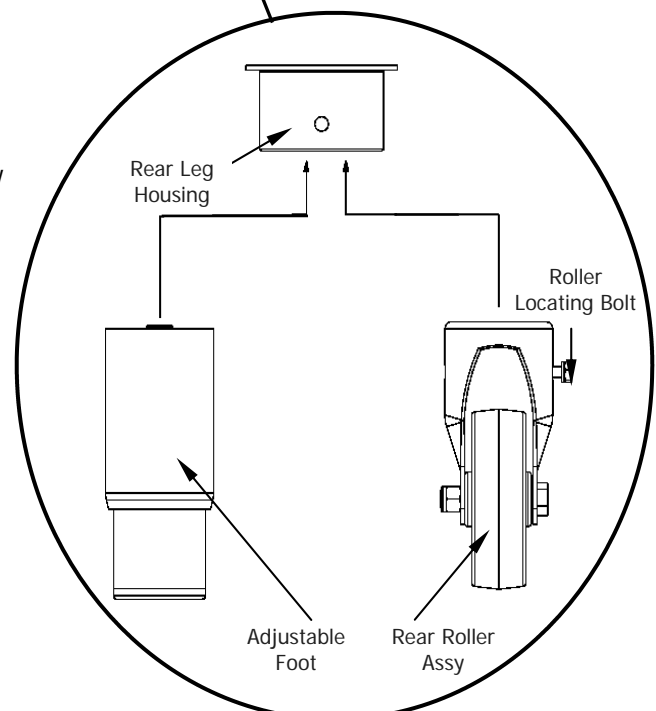
(Refer to the Replacement Parts List)

- Plinth Kit. For installation details, refer to instructions supplied with each kit.



Fitting Rear Rollers.

1. Raise appliance from floor by approx. 75mm using suitable lifting equipment (i.e. Palletiser / Forklift) to allow rear adjustable feet to be removed.
2. Unscrew and remove both rear adjustable feet from rear leg housings.
3. Fit rear roller to rear leg housing and align screw hole in side of rear leg housing with threaded hole in rear roller.
4. Secure rear roller to leg support with bolt supplied and tighten bolt using a 10mm A/F spanner.
5. Fit second roller and tighten.
6. Lower the appliance back to the floor and adjust the front adjustable feet to level the appliance.



Installation

Gas Connection

NOTE: ALL GAS FITTING MUST ONLY BE CARRIED OUT BY AN AUTHORISED PERSON.

1. It is essential that gas supply is correct for appliance to be installed and that adequate supply pressure and volume are available. The following checks should be made before installation:-
 - a. **Gas Type** the appliance has been supplied for is shown on coloured stickers located above gas connection and on rating plate. Check that this is correct for gas supply the appliance is being installed for. Gas conversion procedure is shown in this manual.
 - b. **Supply Pressure** required for this appliance is shown in 'Specifications' section of this manual. Check gas supply to ensure adequate supply pressure exists.
 - c. **The Input Rate** of this appliance is shown on Rating Plate and in 'Specifications' section of this manual. Input rate should be checked against available gas supply line capacity. **Particular note should be taken if appliance is being added to an existing installation.**



NOTE: It is important that adequately sized piping runs directly to connection joint on appliance with as few tees and elbows as possible to give maximum supply volume.

2. Fit gas regulator supplied, into gas supply line as close to appliance as possible.

NOTE:

- Measure burner operating pressure at target top hob manifold test point with target top burner (Inner and outer ring) operating at full setting.
- NAT, LPG & Butane Only - Operating pressure is ex-factory set and is not to be adjusted, apart from when converting between gasses, if required.
- TOWN GAS Only - Burner operating pressure is to be adjusted using adjustable gas regulator supplied. Town Gas Option is only available with specific ex-factory built Town Gas models, which can also be converted to any other gas. Standard models can only be converted between Nat. Gas, LP Gas and Butane, but not Town Gas.
- Refer to 'Gas Conversion and Specifications' section of this manual for further details.

Regulator connections are $\frac{3}{4}$ " BSP female.

Connection to appliance is $\frac{3}{4}$ " BSP male.

(Refer to 'Specifications' section for gas supply location dimensions).

NOTE: A Manual Isolation Valve must be fitted to individual appliance supply line.

3. Correctly locate appliance into its final operating position and using a spirit level, adjust legs so that appliance is level and at correct height.
4. Connect gas supply to appliance. A suitable joining compound which resists breakdown action of LPG must be used on every gas line connection, unless compression fittings are used.
5. Check gas operating pressure is as shown in 'Specifications' section.
6. Check all gas connections for leakages using soapy water or other gas detecting equipment.



Warning

DO NOT USE A NAKED FLAME TO CHECK FOR GAS LEAKAGES.

NOTE: Measure burner operating pressure at manifold test point with target top burner (Inner and outer ring) operating at full setting.

7. Turn 'Off' mains gas supply and bleed gas out of appliance gas lines.
8. Turn 'On' gas supply and appliance.
9. Verify operating pressure remains correct.

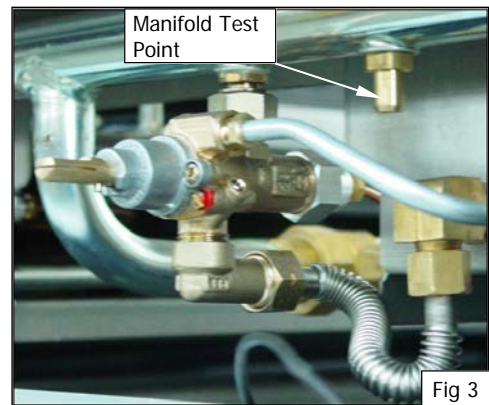


Fig 3

Electrical Connection



Warning

THIS APPLIANCE MUST BE EARTHED. IF SUPPLY CORD IS DAMAGED, IT MUST BE REPLACED BY A SUITABLY QUALIFIED PERSON IN ORDER TO AVOID A HAZARD.

NOTE: ALL ELECTRICAL CONNECTIONS MUST ONLY BE CARRIED OUT BY AN AUTHORISED PERSON.

Each appliance should be connected to an adequately protected power supply and isolation switch mounted adjacent to, but not behind appliance. This switch must be clearly marked and readily accessible in case of fire.

1. Check electricity supply is correct as shown on Rating Plate attached to lower front hand side of front sill panel.
2. Supply terminal connections are located at rear of appliance. Refer to 'Electrical Connections' in 'Dimensions' section of manual.
3. Open oven door and remove oven control panel to allow connection access for electrical supply.
4. Connect mains supply to L1, L2 and L3 connection terminals. Refer to 'Electrical Supply Requirements' section for connection details.

NOTE: This appliance can be converted from 3 Phase to Single Phase supply by connecting single phase input to L1 and adding a bridge wire between L1, L2 and L3 connections, (refer to Fig 4 overleaf and information shown in 'Electrical Supply Requirements Table' in 'Specifications' Section).



Caution

Changing supply from 3 phase to single phase will increase electrical current loading on supply cable. Ensure supply cable used is of a sufficient size for current loading, refer to 'Electrical Supply Requirements' table.

5. Connect neutral and earth conductors to neutral stud and earth stud respectively.
6. For all connections ensure conductors are secure and appropriately terminated.
7. Tighten cable gland to secure against tension on cable.
8. Check polarity of each connection is correct to mains connection terminals markings on appliance.

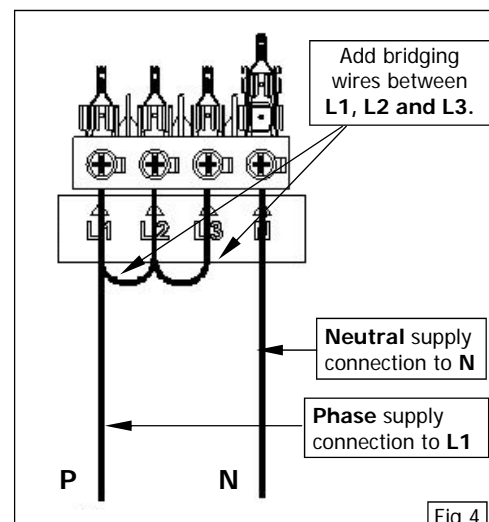


Fig 4

Installation

NOTE:

- **This appliance must be earthed.**
 - **Fixed wiring installations must incorporate an all-pole disconnection switch.**
9. Correctly locate appliance into its final operating position and using a spirit level, adjust legs so that appliance is level and at correct height.
 10. Connect power supply to appliance.
 11. Check electrical supply is within input rating specification, refer to 'Specifications' section).

Commissioning

1. Before leaving the new installation;
 - a. Check the following functions in accordance with operating instructions specified in 'Operation' section of this manual.
 - Light the Target Top Pilot Burner.
 - Light the Target Top Main Burner.
 - Check the Target Top Low Fire Burner operation.
 - Check the Target Top High Fire Burner operation.
 - Check the Oven Heating.
 - Check the Oven Thermostat operation.
 - Check the Oven Fan operation (GEC models only).
 - Check the current draw and loading for the equipment. Refer specification section for correct electrical requirements.
 - Check that all the connections are correct and that all cover panels have been re-fitted.
 - Ensure that this instruction manual is left with the appliance.
 - Ensure that all the relevant details and contacts have been added to the front of this manual.
 - b. Ensure that the operator has been instructed in the areas of correct lighting, operation, and shutdown procedure for the appliance.
2. This manual must be kept by the owner for future reference, and a record of ***Date of Purchase, Date of Installation*** and ***Serial Number of Appliance*** recorded and kept with this manual. ***(These details can be found on Rating Plate attached to front right hand corner of bottom sill. Refer to 'Gas Connection' section).***

NOTE:

- If for some reason it is not possible to get appliance to operate correctly, turn 'Off' electrical power and gas supply and contact supplier of this appliance.
- Make sure that electrical and gas supply are turned 'Off' before any service or maintenance work is carried out on appliance.

Operation Guide



Caution

- This appliance is for professional use and is only to be used by qualified persons.
- Only authorised service persons are to carry out installation, servicing or gas conversion operations.
- Components having adjustments protected (e.g. paint sealed) by the manufacturer should not be adjusted by the user / operator.

1. Waldorf appliances have been designed to provide simplicity of operation and 100% safety protection.
2. Improper operation is almost impossible, however bad operation practices can reduce the life of the appliance and produce a poor quality product. To use this appliance correctly please read the following sections carefully:-
 - Lighting the Pilot Burner (Target Top).
 - Lighting the Main Burner (Target Top).
 - Oven.

Description of Controls



Fig 5

Target Top Gas Control Knob



- OFF Position
- ★ PILOT Burner
- △ HIGH Flame
- △ LOW Flame



Oven Top Heat Control

- OFF Position
- LOW Position
- 1 Position
- 2 Position
- 3 Position
- 4 Position
- HIGH Position



Oven Thermostat Control

- OFF Position
- Temperature Graduations 50°C to 320°C

Operation

Lighting Pilot Burner (Target Top)

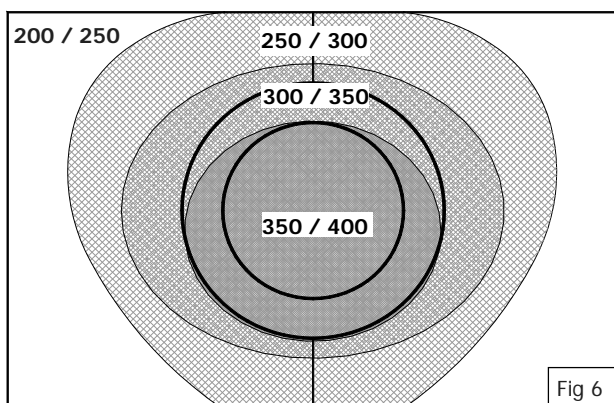
1. Remove centre casting with casting removal tool.
2. Depress control knob and rotate anti-clockwise to 'PILOT' position.
3. With control knob depressed, manually light pilot burner located in front of main burner.
4. Hold in control knob for approximately 10 to 15 seconds, then release.
5. Pilot burner should remain alight. If not repeat **Items 2 to 4** above until pilot burner lights.

Lighting Main Burner (Target Top)

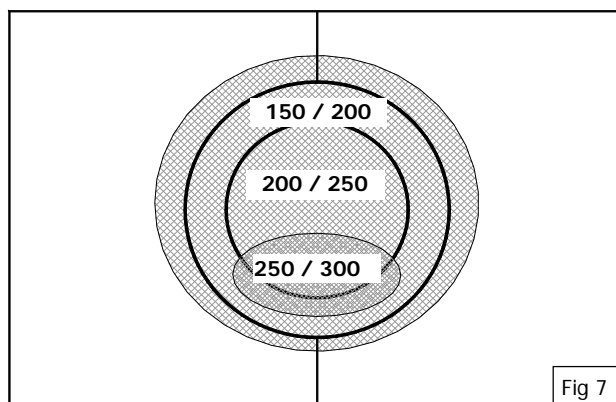
1. Ensure pilot burner is alight by checking through hole in centre of front control panel or by removing centre casting with casting removal tool.
2. Rotate gas control knob anti-clockwise to position marked 'HIGH'.
3. Main burner will ignite automatically off pilot burner.
4. Once lit main burner will be burning at full rate. For a lower heat turn gas control knob fully anti-clockwise to 'LOW' position.
5. Also for intermediate heat, position gas control knob between 'HIGH' and 'LOW' positions.

NOTE: Always set gas control knob to 'HIGH' position when lighting main burner. If pilot burner goes out during normal operation wait 5 minutes before relighting.

6. The cast iron work surface has a heat pattern that can be used effectively by positioning cooking pans etc. appropriately according to heat requirement.



Heat Pattern for Target Top on full heat (°C)



Heat Pattern for Target Top on Low Heat (°C)

IMPORTANT

Should any abnormal operation like;

- ignition problems,
- abnormal burner flame,
- burner control problems,
- partial or full loss of burner flame in normal operation,

be noticed, appliance requires **IMMEDIATE** service by a qualified service person and should not be used until a service is carried out.

Oven

! IMPORTANT	DO NOT USE aluminium foil or trays directly on cast iron sole plate(s). NEVER block or cover openings on each side of sole plate(s).
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The oven is fitted with top and bottom elements. The thermostat maintains overall oven temperature. Top element is further controlled by oven top heat control. Convection Ovens (RN8110GEC) are fitted with a circulation fan.

NOTE: The Thermostat on oven provides overall control of temperature within oven by controlling both elements, whereas Oven Top Heat Control provides a means of balancing distribution of heat between top and bottom of oven.

Place oven racks in desired position.

Preheat:

Preheat oven by selecting desired temperature, and turning oven top heat control (Refer to Fig 5 on previous page) to a maximum of 2. When desired temperature is reached, amber neon will go out.

Cooking:

When desired temperature has been reached, load oven with product and set oven top heat control to desired setting.

NOTE: When oven top heat control is set to a high setting, proportionally more heat is produced at top of oven. (This can be used for browning, etc, during cooking operation). With oven top heat control set on a low setting, less heat is produced from top oven elements. (This mode is used for general baking purposes to prevent cakes, etc, from getting too brown and crisp on top, but allow cake to cook through).

To obtain more top heat during cooking, turn oven top heat control to a higher position. (The higher the setting, the more top heat).

Turning 'OFF' Oven:

- Turn oven top heat control to 'O' Off position. Top heating will be turned 'OFF' and upper heating indicator lamp (Amber) will extinguish.
- Turn thermostat control knob to 'O' off position and lower heating indicator lamp (Amber) will extinguish. Oven is now turned 'OFF'.

Cleaning and Maintenance

General



Caution

Always turn 'Off' electrical and gas supply before cleaning.

This appliance is not water proof.

Do not use water jet spray to clean interior or exterior of appliance.

Clean Target Top / Range regularly. A clean appliance looks better, will last longer and will perform better. Carbonised grease on cooking surfaces will hinder transfer of heat from cooking surface to food. This will result in loss of cooking efficiency.

DO NOT use water on Target Top while this item is still hot as warping and cracking may occur. Allow Target Top / Range to cool down and then remove for cleaning.

NOTE:

- **DO NOT use abrasive detergents, strong solvents or caustic detergents as they could corrode or damage Target Top / Range.**
- **In order to prevent rust forming on Target Top, ensure that any detergent or cleaning material has been completely removed after each cleaning. Appliance should be switched 'On' briefly to ensure target top becomes dry.**

To keep your Target Top / Range clean and operating at peak efficiency, follow the procedures shown below:-

After Each Use

Clean Target Top / Range with a stiff nylon brush or a flexible spatula to remove any build up of carbon.

Daily Cleaning

1. Thoroughly clean splash back, interior and exterior surfaces of Target Top / Range with hot water, a mild detergent solution and a soft scrubbing brush.
2. Clean control panel with a damp cloth lightly moistened with a solution of mild detergent and water. Wipe dry with a clean dry cloth.
3. Brush Target Top (cast iron) with a soft bristled brush followed by wiping with a cloth to prevent accumulation of carbon.
4. Remove drip tray and clean with a mild anti bacterial detergent and hot water solution using a soft bristled brush. Dry drip tray thoroughly with a dry cloth.
5. Dry Target Top / Range thoroughly with a dry cloth and polish with a soft dry cloth.

Weekly Cleaning

NOTE:

- **If Target Top / Range usage is very high, we recommend that weekly cleaning procedure is carried out on a more frequent basis.**
- **Ensure that protective gloves are worn during cleaning process.**
- **DO NOT use harsh abrasive detergents, strong solvents or caustic detergents as they will damage Target Top / Range.**
- **DO NOT use water on Target Top / Range while it is still hot as cracking may occur. Allow castings to cool and remove for cleaning.**

Target Top

- This should be kept clean of any build up of spillage's of food. Provided the cast iron work surface is regularly used it will maintain itself in good condition with no special cleaning requirements required.
- Clean any food residue and spillage from channels around centre casting and main plates before use.
- DO NOT use water on castings while they are still hot as cracking may occur.** Should it be necessary to clean castings, allow castings to cool and then remove for cleaning. Clean using a soft cloth moistened with a mild detergent and hot water solution and a scrubbing brush. Dry thoroughly with a dry cloth.
- Remove drip tray and clean with a mild anti bacterial detergent and hot water solution using a soft bristled brush. Dry drip tray thoroughly with a dry cloth.
- Clean control panel with a damp cloth moistened with a solution of mild detergent and hot water. Dry control panel thoroughly with a dry soft cloth.

Stainless Steel Surfaces

- Clean exterior surfaces of target top / range with hot water, a mild detergent solution and a soft scrubbing brush. Note the gas control knobs are a push fit onto gas control valve spindles and can be removed to allow cleaning of front control panel.
- Baked on deposits or discolouration may require a good quality stainless steel cleaner or stainless steel wool. Always apply cleaner when the appliance is cold and rub in the direction of the grain.
- To remove any discolouration, use an approved stainless steel cleaner or stainless steel wool. Always rub in direction of grain.
- Dry all components thoroughly with a dry cloth and polish with a soft dry cloth.

Periodic Maintenance

NOTE: All maintenance operations should only be carried out by a qualified service person.

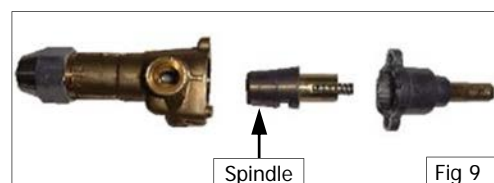
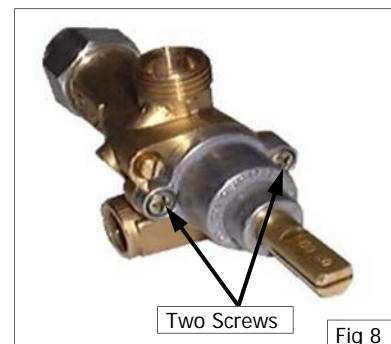
To achieve the best results, cleaning must be regular and thorough and all controls and mechanical parts should be checked and adjusted periodically by a qualified service person. If any small faults occur, have them attended to promptly. Don't wait until they cause a complete breakdown. It is recommended that the appliance is serviced every 6 months.

Gas Control Valve Re-Greasing

The gas control valve should be dismantled and greased every 6 months to ensure correct operation of the gas control valve.

To carry out this operation;-

- Remove gas control knobs from gas tap spindles by pulling knobs away from control panel.
- Remove drip tray from appliance.
- Remove two screws on underside of control panel, securing control panel to hob and remove control panel from front of appliance.
- Remove 2 screws holding shaft plate to gas control body and remove control shaft and plate. (See Fig 8). Note orientation of shaft for correct re-assembly.
- Using needle nose pliers or similar, pull out gas control spindle, again noting its orientation.
- Apply a suitable high temperature gas cock grease or lubricant such as ROCOL - A.S.P (Anti scuffing paste) / Dry Moly Paste to outside of spindle. (See Fig 9).
- Replace spindle and re-assemble gas control in reverse order.
- Refit control panel to appliance and secure with 2 screws.
- Refit knobs to gas control valve spindles.



Fault Finding

This section provides an easy reference guide to the more common problems that may occur during operation of your appliance. The fault finding guide in this section is intended to help you correct, or at least accurately diagnose problems with your equipment.

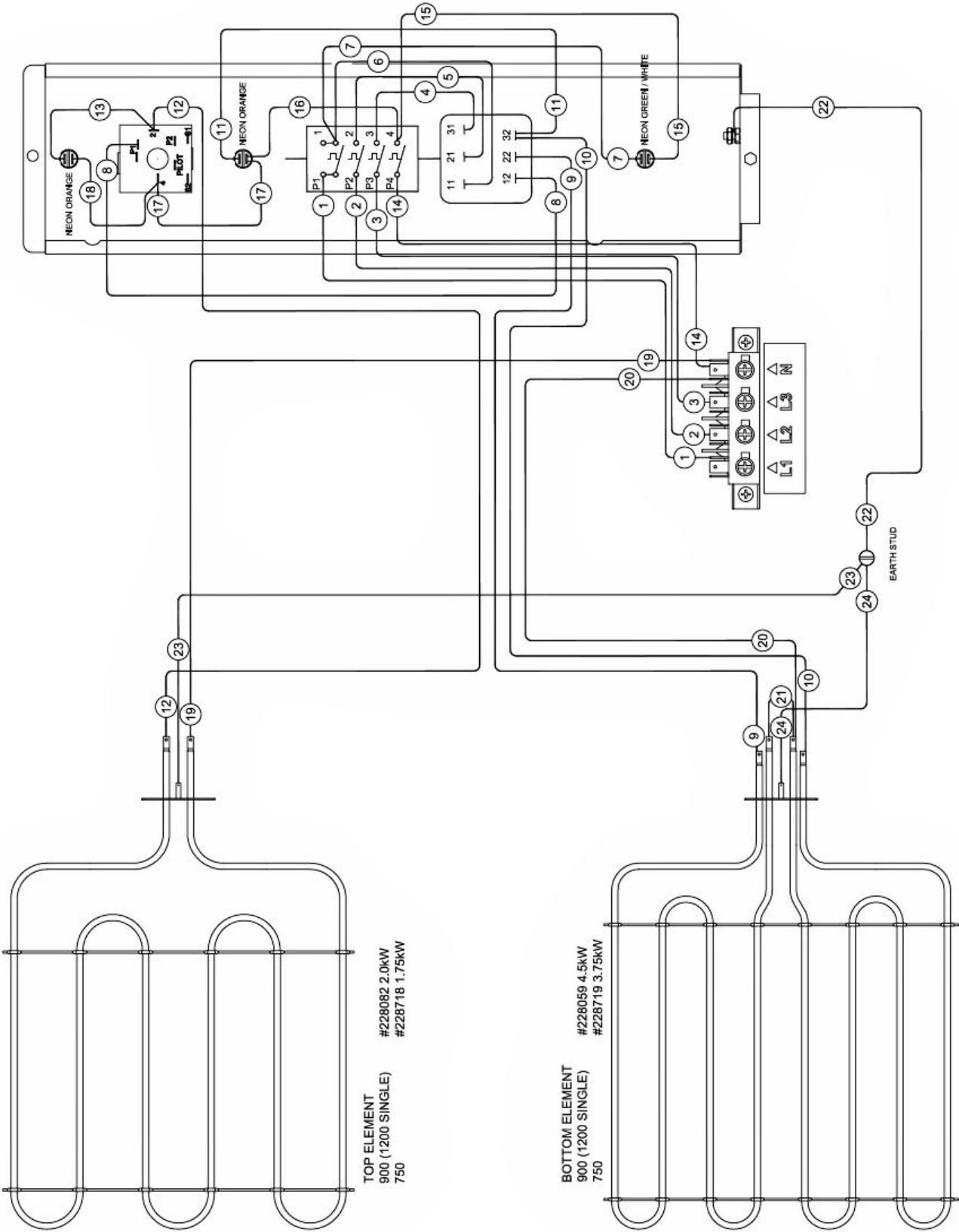
Although this section covers the most common problems reported, you may encounter a problem not covered in this section. In such instances, please contact your local authorised service agent who will make every effort to help you identify and resolve the problem. Please note that the service agent will require the following information:-

- **Model Trade Name and Serial Number of Appliance. (Both can be found on Technical Data Plate located on appliance).**

Fault	Possible Cause	Remedy
Pilot won't light.	No gas supply. Blocked pilot injector.	Ensure gas isolation valve is turned 'On', and bottles are not empty. Call service provider.
Pilot goes out when gas control knob released.	Releasing knob before thermocouple has heated. Pilot flame too small. - Gas pressure too low. - Partially blocked pilot injector. Thermocouple connection to gas control is loose or faulty. Thermocouple faulty.	Hold knob in for at least 20 seconds following ignition of pilot. Clean or replace pilot injector. Tighten thermocouple connection. Inspect and replace if not in good working order. Call service provider.
Main burner will not light.	Incorrect supply pressure. Faulty gas control.	 Call service provider.
Element does not work when turned 'ON'.	Check individual fuses located behind control panel. Check for an electrical short by checking there is NO continuity between any 'Phase In' line and metal appliance body itself. Check for item failing (element, control etc) by using a multimeter as shown on following pages.	Replace blown fuse. Call service provider.
Complete power failure of appliance	Check fuse connection at mains supply. Ensure fuse size is correct to carry load. Check for an electrical short to appliance.	Replace blown fuse. Carry out a continuity and resistance check on appliance. Call service provider.

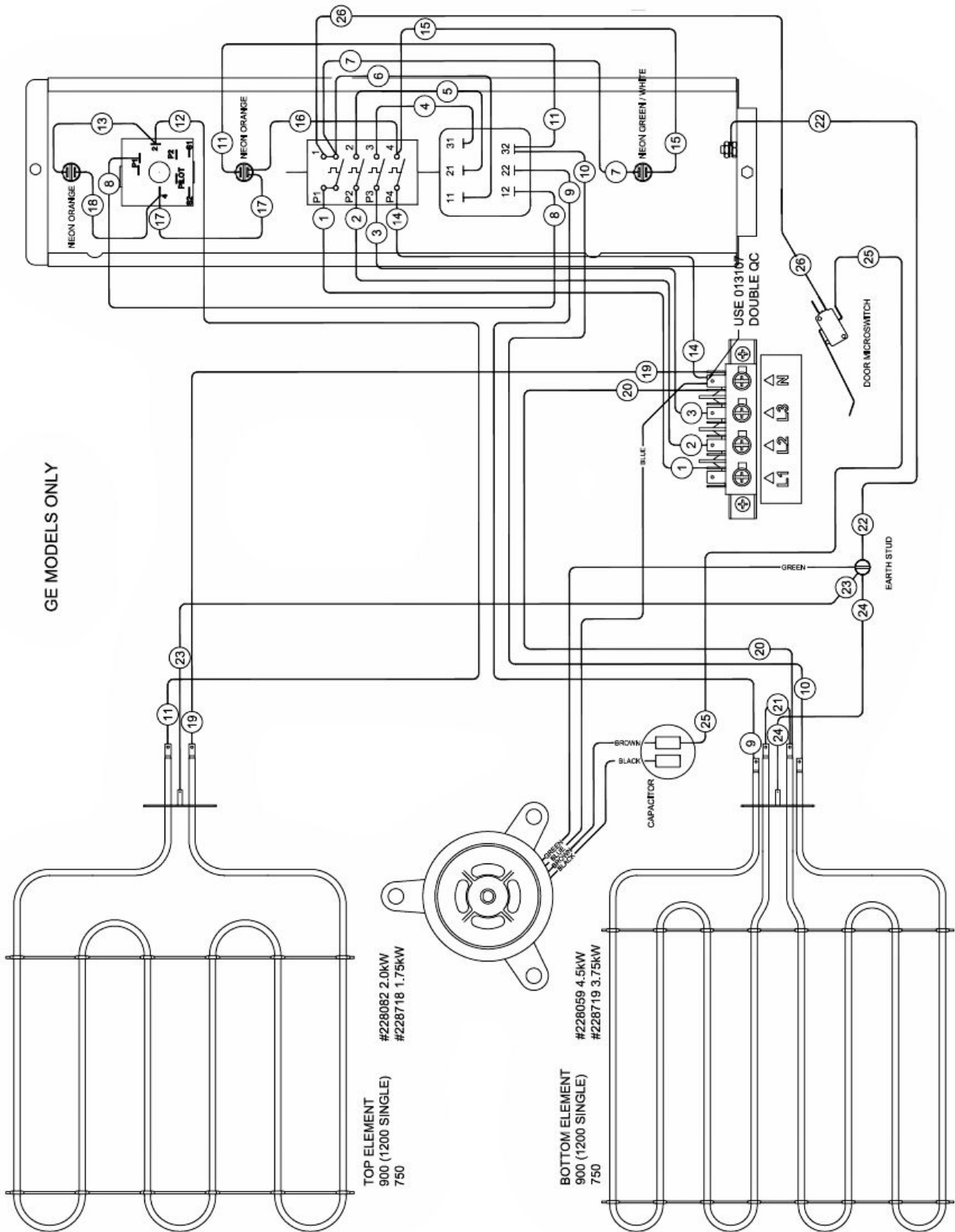
NOTE: Components having adjustments protected (e.g. paint sealed) by manufacturer, are only to be adjusted by an authorised service agent. They are not to be adjusted by an unauthorised service person.

RN(L)8110GE

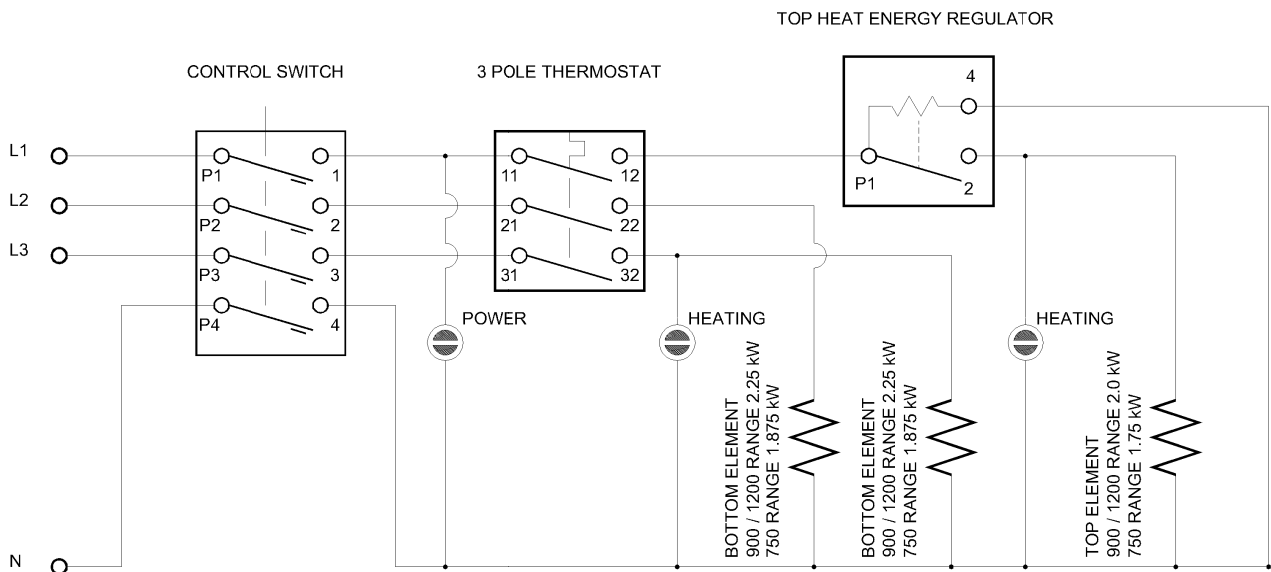


Wiring Schematic

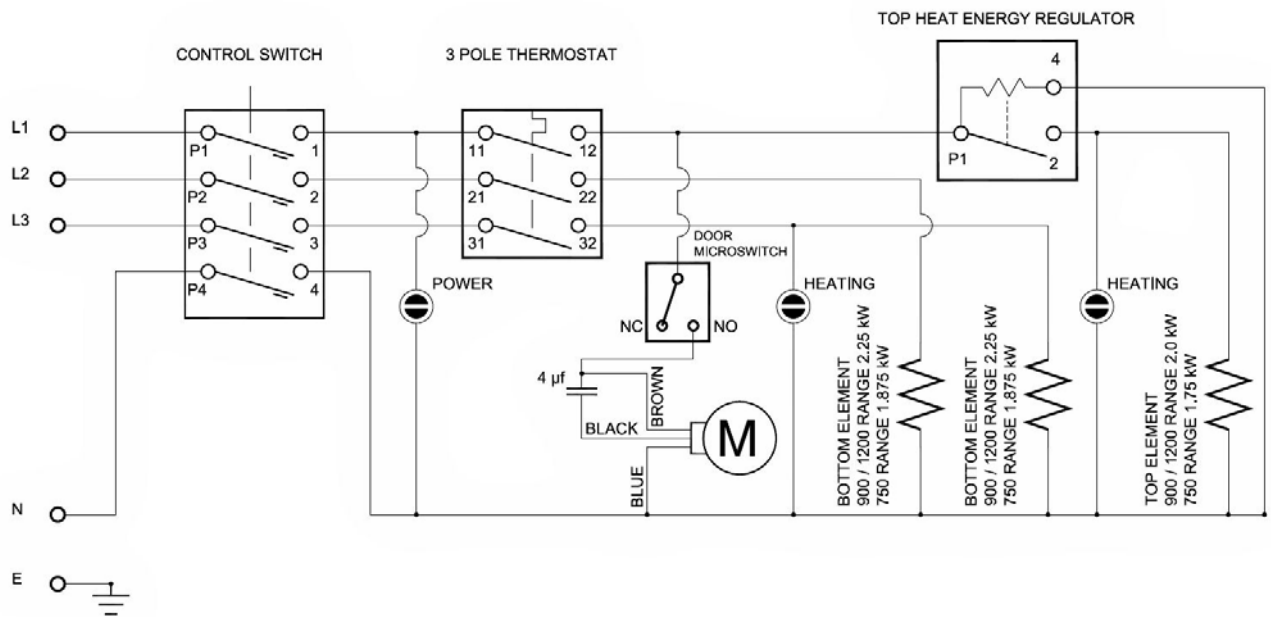
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Wiring Layout for Static Oven



Wiring Layout for Convection Oven



Conversion Procedure



Caution

Ensure Appliance is isolated from gas and electrical supplies before commencing servicing.

NOTE:

- These conversions should only be carried out by qualified persons. All connections must be checked for leaks before re-commissioning appliance.
- Adjustment of components that have adjustments / settings sealed (e.g. paint sealed) can only be adjusted in accordance with the following instructions and shall be re-sealed before re-commissioning this appliance.
- For all relevant gas specifications refer to 'Gas Specification Tables' at rear of this section.

Remove the following:-

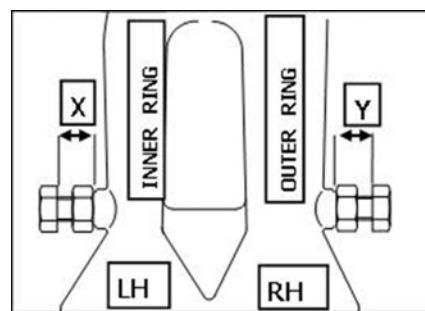
- Control knob from target top control panel.
- Centre casting.
- Two half plate castings.
- Two front fire bricks.
- R/H main fire brick.

Main Burner Injectors

1. Remove main burner to reveal inner and outer ring injectors.
2. Remove injectors and replace with correct size injectors as shown in 'Gas Specifications Tables' at rear of this section.
3. Refit main burner to target top.

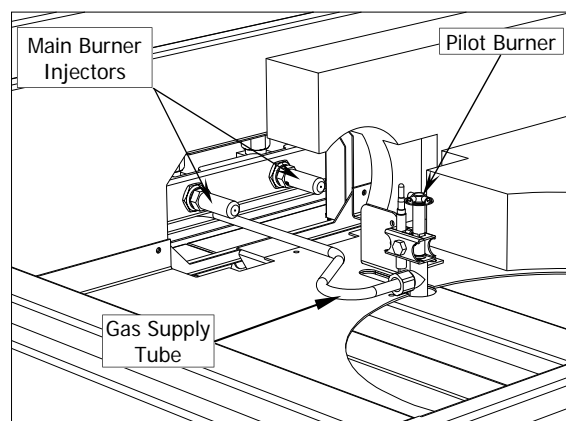
NOTE: Ensure main burner is pulled fully towards front of unit before tightening 2 main burner securing screws.

4. Set burner aeration screws 'X' and 'Y' for correct gas type aeration, as shown in 'Gas Specifications Tables' at rear of this section.



Pilot Burner

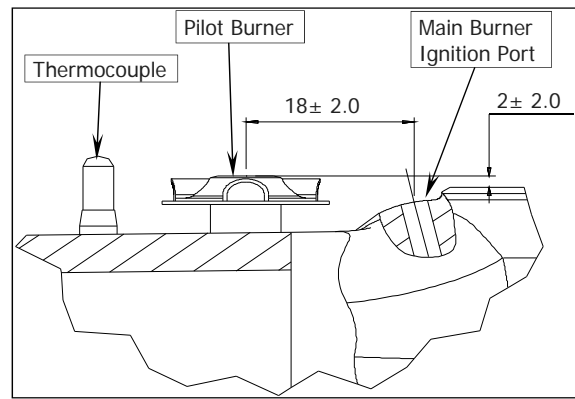
1. Disconnect gas supply tube from base of pilot burner.
2. Remove pilot burner and thermocouple retaining plate.
3. Remove pilot burner from mounting bracket.
4. Remove injector and spring from pilot burner and replace with correct size injector as shown in 'Gas Specifications Tables' at rear of this section.
5. Refit pilot burner to retaining bracket - ensuring pilot burner ports are at same height as thermocouple.



Gas Conversion and Specifications

NOTE: Ensure pilot burner and thermocouple are correctly located and pilot burner aligns with main burner ignition port. (Refer to figure opposite for correct fitting and alignment dimensions).

- Re-connect gas supply tube to pilot burner.
- Refit RH main fire brick.
- Refit 2 front fire bricks.
- Refit 2 half plate castings - ensure they are correctly interlocked.
- Refit centre casting.
- Refit front control panel and control knob.



Low Fire Adjustment

NOTE: Adjust low fire adjustment screw on gas control valve to as shown in 'Gas Specifications Tables' at rear of this section.

1. Light main burner and check flame size on simmer (LOW) position.

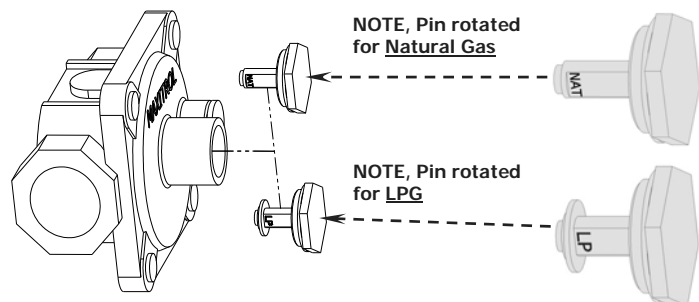


NOTE: 'Low Fire Screw' should be sealed with coloured paint on completion of low fire adjustment.

Gas Regulator

- NAT Gas / LPG / Butane Only.

NOTE: Gas regulator supplied is convertible between Natural Gas and LP Gas, but it's outlet pressure is fixed ex-factory and is NOT to be adjusted.

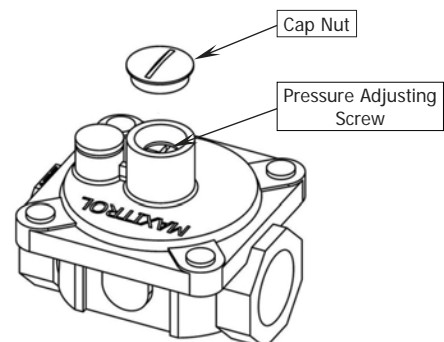


- Town Gas Only.

1. Remove slotted cap from regulator.
2. Turn 'On' gas supply and appliance.
3. Adjust pressure adjusting screw to achieve correct burner operating pressure.

NOTE: Measure operating pressure at manifold test point with two burners operating at 'High Flame' setting.

4. Turn 'Off' mains gas supply and bleed gas out of appliance gas lines.
5. Turn 'On' gas supply and appliance.
6. Verify operating pressure remains correct (Re-adjust regulator if required).
7. Screw cap nut back onto regulator.



Gas Conversion and Specifications

Gas Type Identification Label

On completion of the gas conversion, replace gas type identification label, located:-

- At the rear of the unit, above the gas connection.
- Beside the Rating Plate.

Commissioning

Before leaving the converted installation;

1. Check all gas connections for leakages using soapy water or other gas detecting equipment.





Warning

DO NOT USE A NAKED FLAME TO CHECK FOR GAS LEAKAGES.

2. Check the following functions in accordance with operating instructions specified in 'Operation' section of this manual.
 - Light the Pilot Burner.
 - Light the Main Burner.
 - Check the Low Fire burner operation.
 - Check the High Fire burner operation.
 - Ensure that all the controls operate correctly.
 - Ensure that the operating pressure remains correct
3. Ensure any adjustments done to components that have adjustments / settings sealed (e.g. paint sealed) are re-sealed.

NOTE: If for some reason it is not possible to get appliance to operate correctly, shut 'Off' gas supply and contact supplier of this appliance.

Gas Specifications

	Natural Gas	LP Gas	Butane	Town Gas (**)
Main Burner Injector (Inner Ring)	Ø 1.70 mm	Ø 1.10 mm	Ø 1.00 mm	Ø 4.20 mm
Main Burner Injector (Outer Ring)	Ø 2.60 mm	Ø 1.55 mm	Ø 1.45 mm	Ø 6.30 mm
Pilot Injector	0.35	0.25		0.70
Burner Aeration Screw X (Inner)	25 mm	25 mm		20 mm
Burner Aeration Screw Y (Outer)	28 mm	28 mm		22 mm
Low Fire Adjustment	2½ turns out (ccw)	1 turn out (ccw)		Blank 1½ turns out (ccw)
Operating Pressure	1.0 kPa (*)	2.6 kPa (*)		0.63 kPa (*)
Gas Regulator Cap Screw			Adjustable Regulator (Adjust to Burner Operating Pressure specified)	

NOTE:

- (**) Measure burner operating pressure at target top hob manifold test point with target top burner (Inner and outer ring) operating at full setting.
- NAT, LPG & Butane Only - Operating pressure is ex-factory set and is not to be adjusted, apart from when converting between gasses, if required.
- TOWN GAS Only - Burner operating pressure is to be adjusted using adjustable gas regulator supplied. Town Gas Option is only available with specific ex-factory built Town Gas models, which can also be converted to any other gas. Standard models can only be converted between Nat. Gas, LP Gas and Butane, but not Town Gas.
- Refer to this section for further details.

Replacement Parts List

IMPORTANT:

Only genuine authorized replacement parts should be used for servicing and repair of this appliance. Instructions supplied with parts should be followed when replacing components.

For further information and servicing instructions, contact your nearest authorized service branch (contact details are as shown on reverse of front cover of this manual).

When ordering replacement parts, please quote part number and description as listed below. If part required is not listed, request part by description and quote model number and serial number as shown on rating plate.

Target Top

228853	Burner.		
230511	Pilot Burner Kit.		
235347	Thermocouple Kit.		
017800	Gas Control Valve	(Nat / LPG / Butane).	
227384	Gas Control Knob	(Nat / LPG / Butane).	
229699	Gas Control Valve	(Town Gas).	
229693	Gas Control Knob	(Town Gas).	
031170	Injector Inner Ring	(Nat)	Ø 1.70 mm.
031110	Injector Inner Ring	(LPG)	Ø 1.10 mm.
031100	Injector Inner Ring	(Butane)	Ø 1.00 mm.
031420	Injector Inner Ring	(Town Gas)	Ø 4.20 mm.
031260	Injector Outer Ring	(Nat)	Ø 2.60 mm.
031155	Injector Outer Ring	(LPG)	Ø 1.55 mm.
031145	Injector Outer Ring	(Butane)	Ø 1.45 mm.
031630	Injector Outer Ring	(Town Gas)	Ø 6.30 mm.
227985	Pilot Injector	(Nat)	0.35.
227984	Pilot Injector	(LPG / Butane)	0.25.
232310	Pilot Injector	(Town Gas)	0.70.

Oven

228691	Oven Top Element 1.75 kW.	(750 Ovens).
228690	Oven Bottom Element 3.75 kW.	(750 Ovens).
228082	Oven Top Element 2 kW.	(900 - 1200 Ovens).
228059	Oven Bottom Element 4.5 kW.	(900 - 1200 Ovens).
228704	Door Spring Kit.	
229021	Terminal Block Mains.	
227399	Control Knob Thermostat 50°C - 300°C.	
229146	Thermostat 50 - 300°C.	
229145	Switch (4-pole).	
013989	Energy Regulator.	
227398	Control Knob HI / LO Heat.	

Convection Oven Only

228938	Oven Door Microswitch.
010909	Motor Capacitor 4µf.
228116	Fan.
019479	Motor.

Replacement Parts List

General

227012	Centre Casting.
227013	Half Plate Casting.
014997	Casting Removal Tool.
227892	Side Rack LH.
227893	Side Rack RH.
227896	Oven Rack.
228571	Index Mark Moulding.
227963	Neon Orange.
227962	Neon Green.
227850	Leg (150 mm) Adjustable.
229674	Rear Roller Assy.

Accessories

228800	Ranges 900 mm Plinth Kit.
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Gas Regulator

Gas Type	Gas Regulators	
	Part No.	Description
Nat. Gas LPG Butane	228531	¾" BSP F/F Convertible.
Town Gas	230185	¾" BSP F/F Adjustable.

Gas Conversion Kits

- Australia / New Zealand Only

Model	Gas Type to Convert to			
	Nat. Gas	LPG	Butane	Town Gas
RN8110GE / GEC	231972	231971	231973	N/A (*)

NOTE: (*) Town Gas Option is only available with specific ex-factory built Town Gas models, which can also be converted to any other gas. Standard models can only be converted between Nat. Gas, LP Gas and Butane, but not Town Gas.

- UK Only

Model	Gas Type to Convert to	
	Nat. Gas	LPG
RN8110GE / GEC	231972	231971

